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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,840	09/09/2003	Ralph R. Dammel	2003US301/CIP	3016
75	90 09/13/2005		EXAM	INER
Sangya Jain			CHU, JOHN S Y	
Clariant Corpora	ation			
70 Meister Aver	nue		ART UNIT	PAPER NUMBER
Somerville, NJ 08876			1752	
		DATE MAIL ED. 00/12/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application No.	Applicant(s)				
		10/658,840	DAMMEL ET AL.				
		Examiner	Art Unit				
		John S. Chu	1752				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHICHE Extensions after SIX (i If NO perio Failure to i Any reply i	TENED STATUTORY PERIOD FOR REPLY VER IS LONGER, FROM THE MAILING DASS of time may be available under the provisions of 37 CFR 1.13 of) MONTHS from the mailing date of this communication. Day of for reply is specified above, the maximum statutory period we reply within the set or extended period for reply will, by statute, received by the Office later than three months after the mailing tent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirn will apply and will expire SIX (6) MONTHS from cause the application to become ARANDONE.	N. nely filed the mailing date of this communication.				
Status							
1)⊠ Res	sponsive to communication(s) filed on <u>30 Ju</u>	<u>ıne 2005</u> .					
	This action is FINAL . 2b) This action is non-final.						
3)∏ Sin	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition (of Claims						
4)⊠ Cla	im(s) 2 and 7-17 is/are pending in the applic	cation.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Cla	☑ Claim(s) <u>2, 7-17</u> is/are rejected.						
	im(s) is/are objected to.	•					
8)∐ Cla	im(s) are subject to restriction and/or	election requirement.					
Application Papers							
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority unde	er 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
ى	3. Copies of the certified copies of the priority documents have been received in this National Stage						
* See t	application from the International Bureau (PCT Rule 17.2(a)). See the attached detailed Office action for a list of the certified copies not received.						
, and an action detailed office action for a list of the certified copies not received.							
Attachment(s)							
) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
Paper No(s)/Mail Date Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Notice of Informal Patent Application (PTO-152)							
Paper, No(s	n Disclosure Statement(s) (PTO-1449 or PTO/SB/08) s)/Mail Date	6) Other:	Rent Application (PTO-152)				
Patent and Trademar	rk Office						

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DETAILED ACTION

This Office action is in response to the amendment received June 30, 2005.

1. The rejection under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention is **withdrawn** in view of the amendment by applicants.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 2, and 7-17 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by. as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over ITO et al '219.

The claimed invention is now drawn to the following:

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2(currently amended). The A composition comprising a photoacid generator and a fluorinated polymer according to claim 1, where the fluorinated polymer comprising the unit of structure 1 is a reaction product of polymer containing an aliphatic monocyclic fluoroalcohol unit with a at least one compound capable of functionalizing the fluoroalcohol unit with an alkyloxycarbonylalkyl group of structure -(CR₃R₄)p(CO)OR₅, where R₃ and R₄ are independently H. F. (C₁-C₈)alkyl. (C₁-C₈)fluoroalkyl. cycloalkyl. cyclofluoroalkyl. (CR₃R₄)p(CO)OR₅. R₃ and R₄ may combine to form an alkylspirocyclic or a fluoroalkylspirocyclic group. R₅ is H or an acid labile group, and p=1-4.

ITO et al discloses a chemically amplified photoresist composition comprising the following teaching in column 5, lines 1-17:

wherein m is zero or 1, r is zero or 1, L is an alkylene or oxyalkylene linking group, R¹ is linear or branched fluoroalkyl, R² is linear or branched alkyl or fluoroalkyl, and R³ is hydrogen, alkyl (preferably lower alkyl), —C(O)—R, —CH₂—C(O)OR, —C(O)OR or Si(R)₃ wherein R is alkyl, preferably lower alkyl (e.g., R³ may be —C(O)OC(CH₃)₃, —CH₂C(O)OC(CH₃)₃, —C(O)CH₃, or —Si(CH₃)₃), and at least one additional monomer having the structure (II)

wherein this structure anticipates the claimed invention

having the claimed unit of structure 1.

Applicants are further directed to Example 5 in column

15, line 42 – column 16, et seq. wherein the following monomer is made:

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This monomer is used to prepare a polymer as disclosed in claims of ITO et al. In addition the copolymer made in ITO et al is used in composition comprising an acid generator, see <u>claim 24</u>, <u>column 19</u>, line 63 – column 20, line 29.

Alternatively, it would have been *prima facie* obvious to one of ordinary skill in the art of photoresist compositions to select the preferred side group as recited in column 15, line 16 as seen here: —CH₂C(0)OC(CH₂), —C(0)CH₃, and reasonably expect same or similar results with respect to transparency in deep UV light.

Here the arguments by applicant have been carefully considered, as well as the amendment to claim 2. The novelty as argued by applicant is based on the monocyclic structure as now claimed in claim 2 wherein the norbornene structure is seen as a multicyclic ring. To the contrary, the examiner notes that the precursor as seen above to the norbornene structure upon polymerization upon ring opening can form a monocyclic structure or if polymerized by addition polymerization gives a multicyclic ring structure. Based on the alternative polymerization processes which can be performed on the ring, if a ring opening structure is formed the polymer anticipates the recited monocyclic structure of claim 2.

The rejection is repeated.

3. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Chu whose telephone number is (571) 272-1329. The examiner can normally be reached on Monday - Friday from 9:30 am to 6:00 pm.

The fax phone number for the USPTO is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-1700.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PMR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John S. Chu

Primary Examiner, Group 1700

J.Chu September 2, 2005